

Onto Somethin'

Team Members: Suzanne Pierce, Alii Napoleon, Karen Chen

Goals:

Identify and describe at least 25 relevant curricular resources to inform the iHARP community.

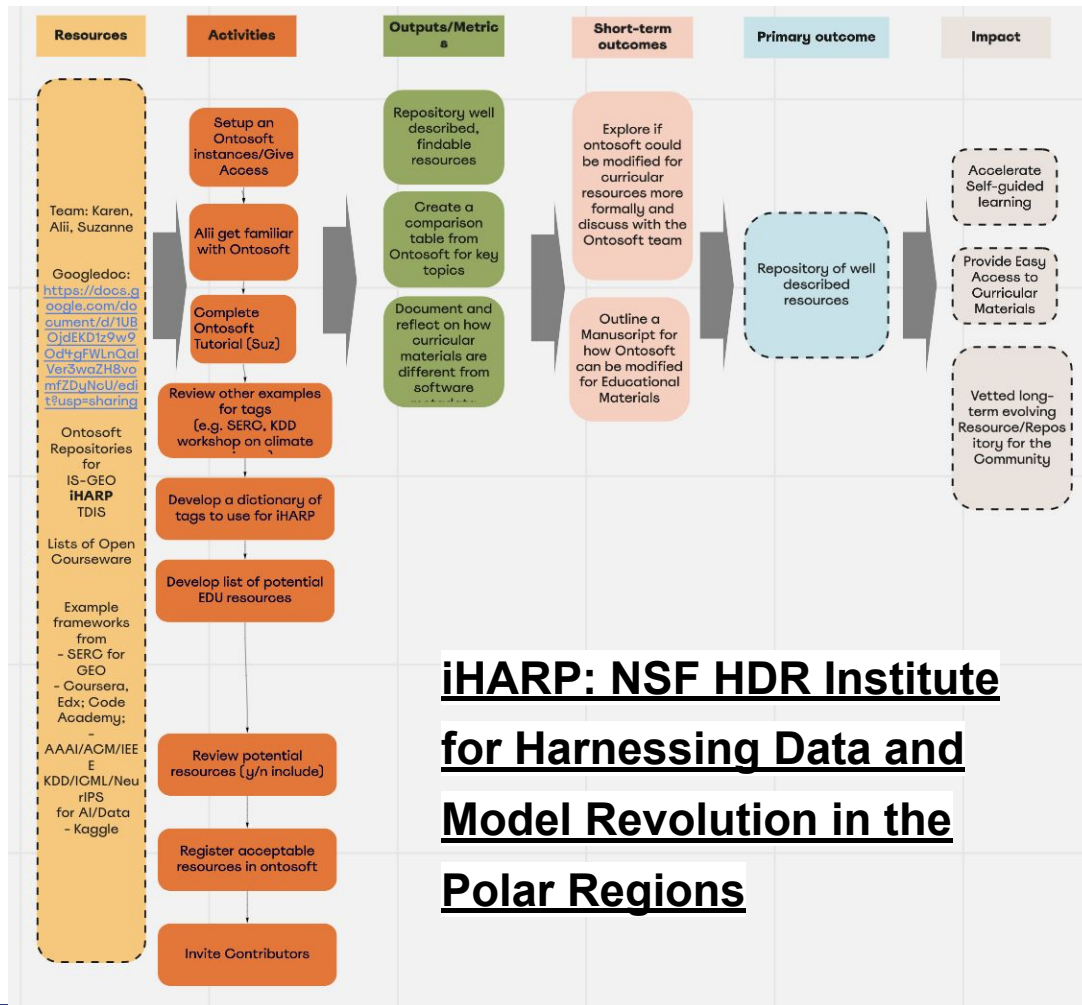
Resources should include domain topics in Data Sciences and Polar Sciences

A Resource list will be produced that describes pedagogical or curricular materials

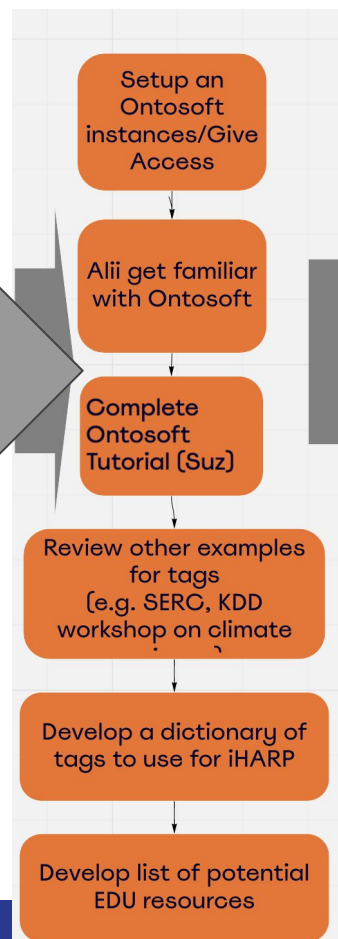
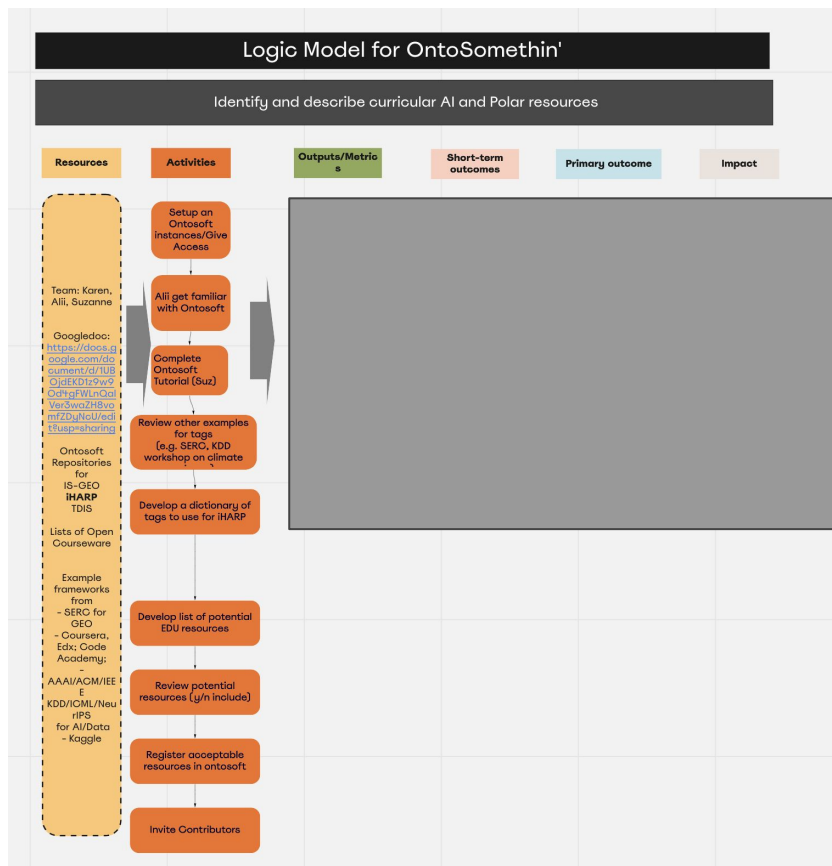
Tuesday, August
16 2022

Logic Model and Priority Activities

for developing the
iHARP
Knowledge
Management
Registry



Completed Wednesday, August 17, 2022

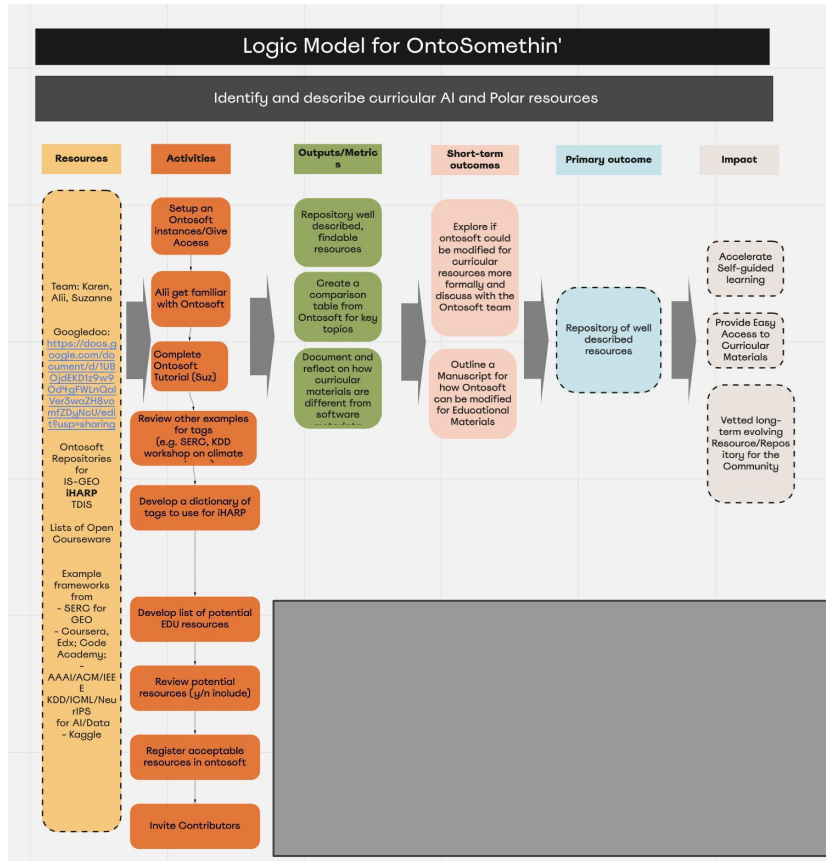


Issue:

Register for a User but can't edit
So all use admin acct
ACTION - send email to Developer (Suzanne)

Inquiry completed and developer looking into this issue.

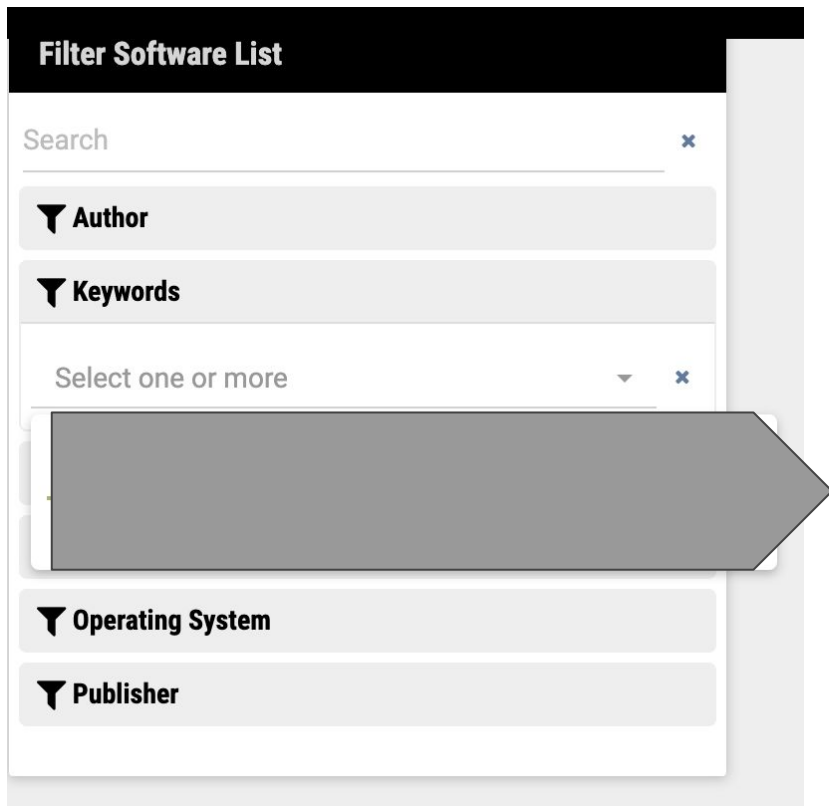
Completed Thursday, August 18, 2022



Review potential resources (y/n include)

Register acceptable resources in ontosoft

Setting up a Framework



Filter Software List

Search x

Author

Keywords

Select one or more ▼ x

Operating System

Publisher

Goal is to prioritize spatio-temporal materials to support research and education from the perspective of both Polar and Data Science domains

Keywords or Labels:

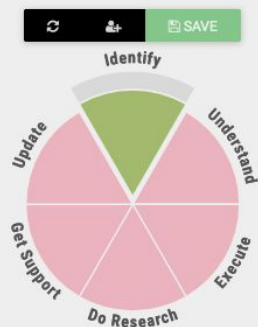
- category [tool, teaching material, tutorial]
 - [\(new category for consideration\) research resource](#)
- domain problem [polar science, ai/ml, data science]
- approach/method [examples, quantitative, qualitative]
- foundational Information []
- data [benchmark, observational]
- model [empirical, physics-based]
- Type resource; [dynamic; static]
 - [CI Resources \(needs discussion with iHARP researchers\)](#)
- expertise [novice; intermediate; advanced; expert]
- quality [peer reviewed, non-reviewed]
- [tbd \(use this keyword for resources we need to revisit\)](#)
- [exclude \(use this keyword and then add the reason/topic\)](#)

Collected Initial Resources to Test Framework

iHARP		
Software Community Training		
Software List		COMPARE
Data Modeling Methods - Informal Posts		
Posted by: admin at 2022-08-18 09:10	DELETE	EDIT
Data Structure - Course Various		
Posted by: admin at 2022-08-18 09:20	DELETE	EDIT
Data Structure - Courses Various		
Posted by: admin at 2022-08-18 09:25	DELETE	EDIT
Deep Multi-Task and Meta Learning		
Posted by: admin at 2022-08-18 09:14	DELETE	EDIT
Full Stack Deep Learning - Course and Tools		
Posted by: admin at 2022-08-18 09:28	DELETE	EDIT
GAN Tutorial		
Posted by: admin at 2022-08-18 09:27	DELETE	EDIT
GPT-3 Book		
Posted by: admin at 2022-08-18 09:06	DELETE	EDIT
Introduction to Machine Learning Problem Framing		
Posted by: admin at 2022-08-18 09:08	DELETE	EDIT
Learn Linux - Various Resources		
Posted by: admin at 2022-08-18 09:19	DELETE	EDIT
Mathematics for Machine Learning		
Posted by: admin at 2022-08-18 09:13	DELETE	EDIT
Public Datasets to practice Machine Learning		
Posted by: admin at 2022-08-18 09:22	DELETE	EDIT
Publishing Papers with Code		
Posted by: admin at 2022-08-18 09:17	DELETE	EDIT
SciPy Conference Talks Collection		
Posted by: admin at 2022-08-18 09:21	DELETE	EDIT
System Design - Various Courses		
Posted by: admin at 2022-08-18 09:23	DELETE	EDIT
What is sea ice?		
Educational content materials providing an introduction to concepts and terminology about sea ice. These materials provide inquiry based learning using the highest educational practices targeting the undergraduate educator, but can be utilized by graduate, as well as K-12 level educators to provi...	DELETE	EDIT
Posted by: spierce at 2022-08-17 14:03		

- 1) Identified possible collections of AI and educational materials
- 2) Began collecting potential resources and adding them to the iHARP instance of OntoSoft

Ontosoft Entry Example

[Software](#)[Community](#)[Training](#)[admin](#)[NASA Earth Sciences](#) » [Edit](#) » [Identify](#) » **LOCATE**

Locate
unique description

Important**Optional****What is the software called ?**

NASA Earth Sciences - Goddard Earth Sciences Division Projects

What is a short description for this software ?

Cryospheric Sciences is a part of Hydrospheric, Biospheric, and Geophysics Sciences located at NASA's Goddard Space Flight Center in Greenbelt, Maryland. We are an international group, from students to senior scientists, with diverse backgrounds in geophysics, computer science, geology, physics, math, geography, and engineering. Our scientists use in-situ and remote observations and modeling techniques to study the cryosphere and interactions with other parts of the Earth system.

What are general categories (keywords, labels) for this software ?

polar science

Qualitative

Quantitative

Observational

Is there a project website for the software ?<https://earth.gsfc.nasa.gov/cryo>

OntoSomethin' Github Repository Created

OntoSomethin-

This is the repository for the OntoSomethin' Hackathon Team for the ISGEO and iHARP Annual 2022 Workshop

Goal of the OntoSomethin' Project:

Create a Knowledge Management Registry (KMR) of Polar and Data Science resources to support the iHARP and ISGEO research communities. The KMR will Prioritize Spatio-temporal Materials for Education from the perspective of both AI and Polar Domains

Activities:

1. Set up and Initial Taxonomy or Framework to categorize and label entries in the registry.
2. Identified possible collections of AI and educational materials

iHARP KMT Taxonomy (preliminary)

Keywords or Labels used in Ontosoft entries:

1. Categories
 - tool, - teaching material, - tutorial
2. domain problem
 - polar science
 - ai/ml
 - data science ice sheet melting, spatio-temporal, sea ice, etc.]
3. approach/method

We created a space to share our work on Github.

<https://github.com/helpfultangent/OntoSomethin->



OntoSomethin': Create a Knowledge Management Registry for Polar and Data Science Research Communities

Team Members: Suzanne Pierce, Alii Napoleon, Karen Chen

